$$\frac{[O_2]}{[O_2+N_2]} = 0.25 \text{ to } 1.0;$$

wherein methane and ammonia are present in a molar ratio of

$$\frac{[CH_4]}{[NH_3]} = 0.95 \text{ to } 1.05;$$

and wherein a molar ratio of ammonia to the sum of oxygen and nitrogen satisfies the following relationship:

$$Y = m \cdot X - a,$$

wherein

$$Y = \frac{[NH_3]}{[O_2+N_2]},$$

$$X = \frac{[O_2]}{[O_2+N_2]},$$

m = 1.25 to 1.40 and

a = 0.05 to 0.14; and

wherein said methane-containing natural gas contains at least 88 vol.% of methane.

REMARKS

Claim 1 has been amended to add the limitation of allowable Claim 7 therein. No new matter has been added into the amended claim.